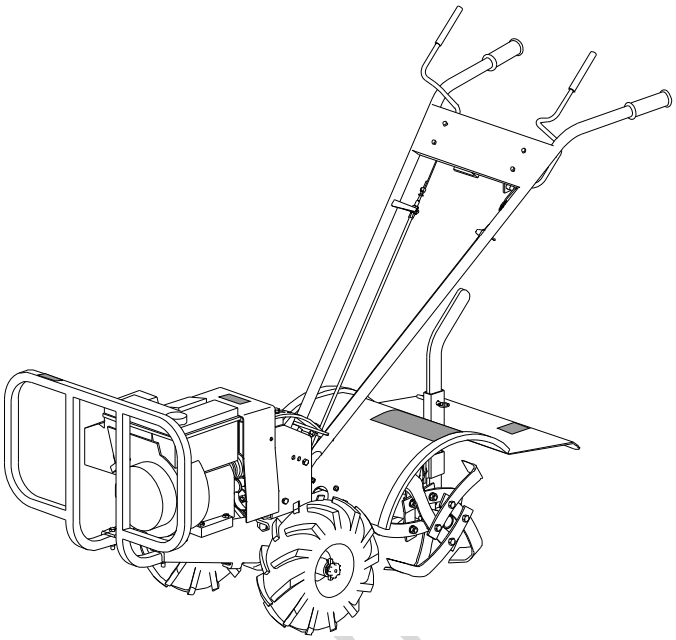
Simplicity®

Parts Manual



Rear Tine Tillers

7HP Series

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7HP Product

Mfg. No.	Description
1694162	7016 RT, 7HP Tiller
1694909	7016 RT, 7HP Tiller

1730320
Rev. 04/2009
TP 400-2635-02-RT-S

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Torque Specification Chart ..... Inside Back Cover

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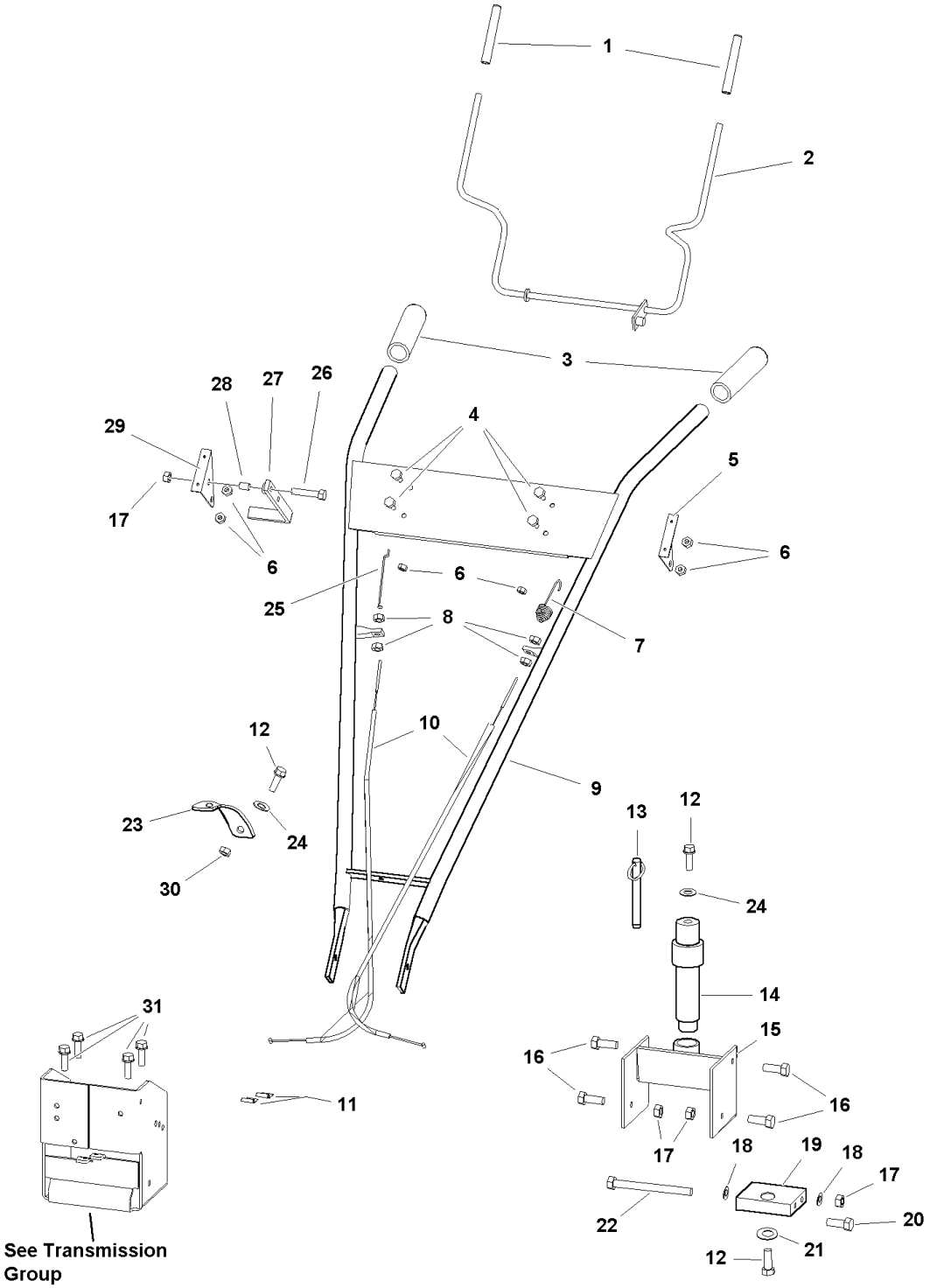
Handle Bar Group

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

986100



The above parts group applies to the following Mfg. Nos.:

1694162 - 7016 RT
1694909 - 7016 RT

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Handle Bar Group

REF NO	PART NO.	QTY.	DESCRIPTION
1	1716699SM	2	HANDLE GRIP, Drive Control Lever
2	1722325SM	1	LEVER, Drive Control
3	1719038SM	2	HANDLE GRIP
4	1960392SM	4	SCREW, Pan Head Phillips #10-24 x 1/2
5	1716723SM	1	BRACKET, Drive Control Lever LH
6	1933896SM	6	NUT, Hex Nylock, 10-24
7	1716720SM	1	SPRING, Forward Cable Adjustment
8	2820438SM	4	NUT, Hex Jam, 5/16-24
9	1723692SM	1	HANDLE BAR ASSEMBLY
10	1719037SM	2	CABLE ASSEMBLY
11	1719063SM	2	C-CLAMP
12	1921332SM	3	CAPSCREW, Hex Head, 5/16-18 x 3/4
13	1723703SM	1	PIN, Detent
14	1723695SM	1	PIVOT ROD ASSEMBLY
15	1723696SM	1	PIVOT MOUNT ASSEMBLY
16	1921210SM	4	CAPSCREW, Hex Head, 3/8-16 x 1
17	1916950SM	5	NUT, Hex, 3/8-16
18	1924940SM	2	WASHER
19	1723694SM	1	PIVOT, Handle Bar Mount
20	1920415SM	1	CAPSCREW, Hex Head, 3/8-16 x 1-1/4
21	1716770SM	1	WASHER
22	1922648SM	1	CAPSCREW, Hex Head 3/8-16 x 4
23	1723697SM	1	PIVOT, Hnadle Bar Height Adjustment
24	1960044SM	2	WASHER
25	1716729SM	1	LINK, Reverse
26	1921977SM	1	CAPSCREW, Hex Head, 5/16-18 x 1-1/4
27	1716725SM	1	HANDLE, Reverse
28	1716704SM	1	BUSHING, Pivot, 5/16
29	1716722SM	1	BRACKET, Drive Control Lever RH
30	1935048SM	2	NUT, Hex Flange Tow Way Lock, 5/16-18
31	1921332SM	4	BOLT, Hex Flange Head, 5/16-18 x 3/4

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Footnotes

The above parts group applies to the following Mfg. Nos.:
1694162 - 7016 RT
1694909 - 7016 RT

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Hood, Drag Stake & Tine Group

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

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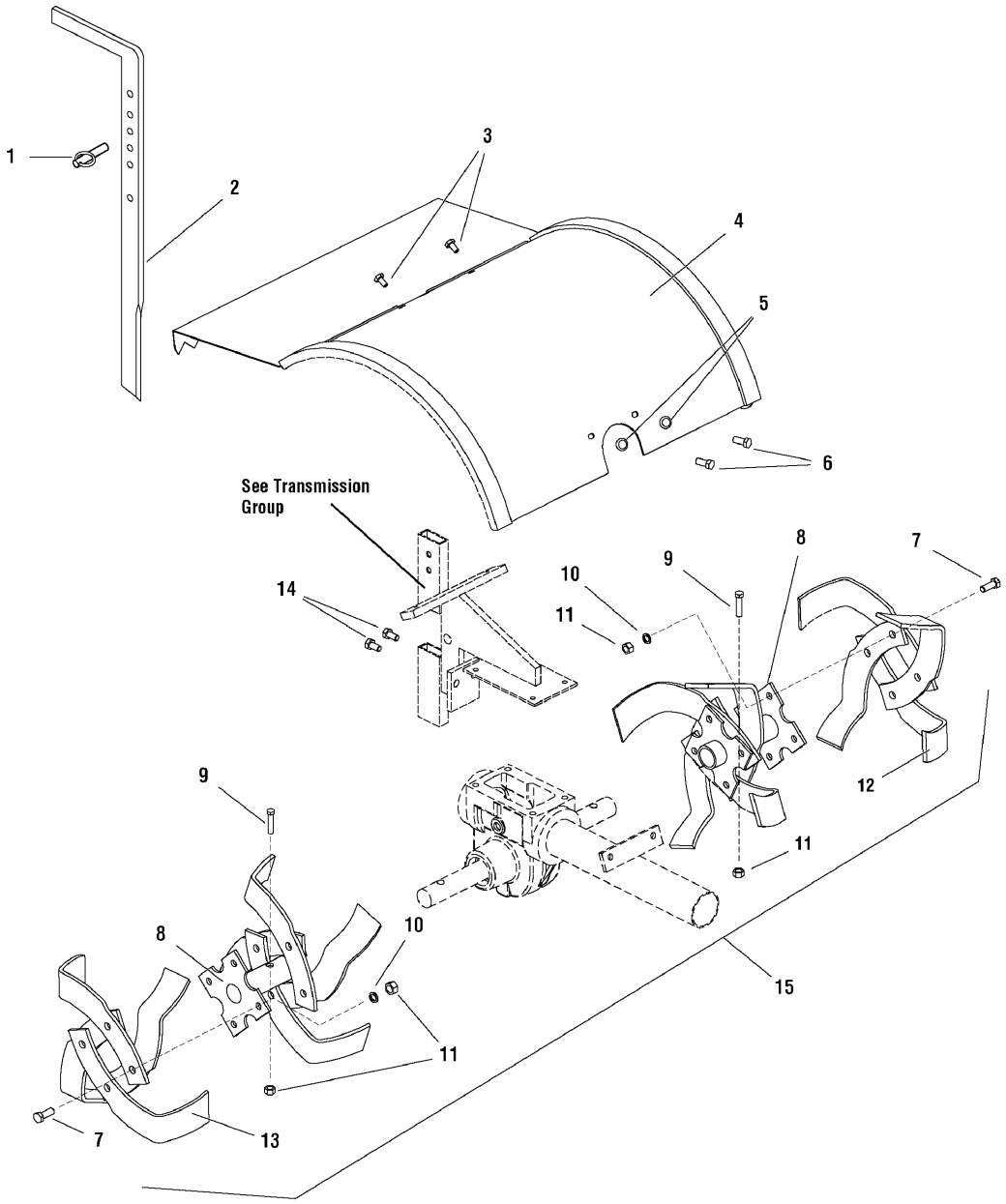

The above parts group applies to the following Mfg. Nos.:

1694162 - 7016 RT

1694909 - 7016 RT

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Hood, Drag Stake & Tine Group

REF NO	PART NO.	QTY.	DESCRIPTION
1	1723703SM	1	PIN, DETENT 5/16
2	1723705SM	1	LEVER, Depth Regulator
3	1921958SM	2	CAPSCREW, Hex Head, 1/4-20 x 1/2
4	1722329SM	1	HOOD, Tiller, No Decal
5	1917356SM	2	LOCKWASHER, 5/16
6	1920787SM	2	CAPSCREW, Hex Head, 5/16-18 x 1/2
7	1921210SM	16	CAPSCREW, Hex Head, 3/8-16 x 1
8	1716741SM	2	HOLDER, Tine Blade Left and Right
9	1921971SM	2	CAPSCREW, Hex Head, 3/8-16 x 1-3/4
10	1916965SM	18	LOCKWASHER, 3/8
11	1930645SM	18	NUT, Hex Centerlock, 3/8-16
12	1716739SM	8	TINE BLADE, Left Side
13	1716737SM	8	TINE BLADE, Right Side
14	1716701SM	2	BOLT, Hex Flange Head, 5/16-18 x 1/2
15	1716749SM	1	REPLACEMENT KIT, Tine Blade Holder & Tines (Includes Reference Nos. 7, 8, 9, 10, 11, 12, and 13)

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Footnotes

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1694162 - 7016 RT
1694909 - 7016 RT

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Engine, Belts & Wheels Group

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

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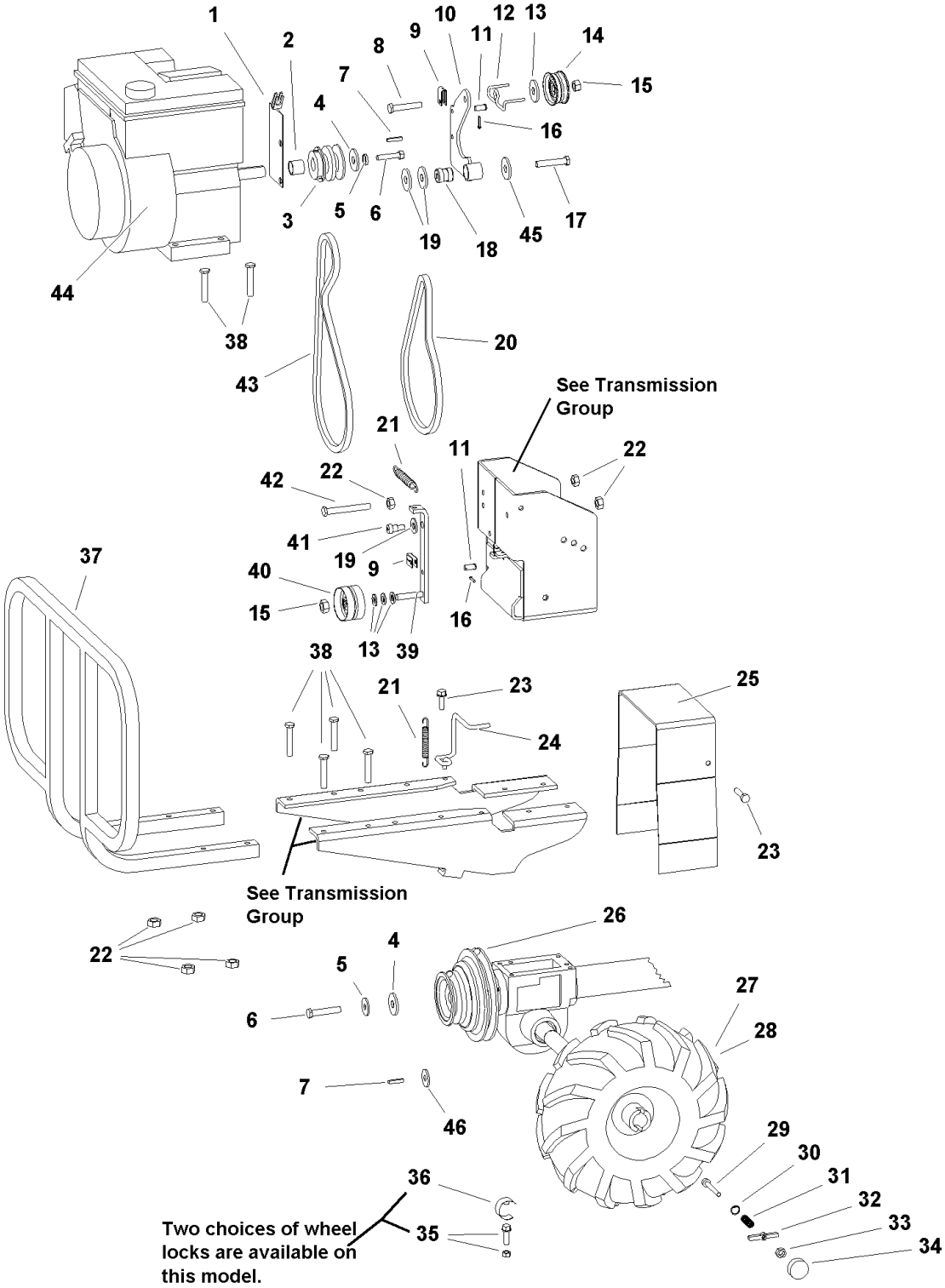

The above parts group applies to the following Mfg. Nos.:

1694162 - 7016 RT

1694909 - 7016 RT

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Engine, Belts & Wheels Group

REF NO	PART NO.	QTY.	DESCRIPTION
1	1722157SM	1	BRACKET, Engine
2	1723711SM	1	SPACER, Engine
3	1722158SM	1	PULLEY, Engine 2 Groove
4	1716770SM	2	WASHER
5	1917356SM	2	LOCKWASHER, Spring 5/16
6	1921515SM	2	CAPSCREW, Hex Head, 5/16-24 x 3/4
7	2805850SM	2	KEY, Parallel
8	1960345SM	1	CAPSCREW, Hex Head, 3/8-24 x 2
9	1716728SM	2	YOKE, Cable
10	1722159SM	1	ARM, Pivot
11	1716702SM	2	PIN, LINK Forward/Reverse
12	1722162SM	1	GUIDE, Belt Reverse
13	1924940SM	4	WASHER, 3/8
14	1716805SM	1	PULLEY, Idler Reverse
15	1930645SM	2	NUT, Hex Center Lock, 3/8-16
16	1716703SM	2	PIN, Cotter
17	1723710SM	1	BOLT, Flat Head, 5/16-24 x 1-1/2
18	1722160SM	1	PIVOT
19	1960044SM	3	WASHER, 5/16
20	1716766SM	1	V-BELT, Forward
21	1716802SM	2	SPRING, Idler Arm
22	1935048SM	7	NUT, Hex Flange 5/16-18
23	1921332SM	3	BOLT, Hex Flange Head, 5/16-18 x 3/4
24	1722161SM	1	GUIDE, Belt Forward
25	1722165SM	1	COVER, Belt
26	1722163SM	1	PULLEY, Transmission 2 Groove
27	1716773SM	1	WHEEL & TIRE ASSEMBLY, Tiller LH
28	1716775SM	1	WHEEL & TIRE ASSEMBLY, Tiller RH
29	1716782SM	2	CAPSCREW, Hex Socket Head, 1/4-20 x 2-3/32
30	1960151SM	2	WASHER, 1/4
31	1716781SM	2	SPRING
32	1716778SM	2	PIN, Lock
33	2828372SM	2	NUT, Hex KEPS 1/4-20
34	1716777SM	1	KNOB, Lock Out Set of Two
35	1722185SM	2	SETSCREW, Wheel Lockout
36	1722171SM	2	CLAMP, C Wheel Lockout
37	1721528SM	1	BUMPER, Guard
38	1922127SM	8	CAPSCREW, Hex Head, 5/16-18 x 1-3/4
39	1722166SM	1	ARM, Idler Forward
40	1716803SM	1	PULLEY, Forward Idler

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Footnotes

Note* See your local Briggs & Straton distributor for Parts & Service.

The above parts group applies to the following Mfg. Nos.:

1694162 - 7016 RT
1694909 - 7016 RT

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Engine, Belts & Wheels Group

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

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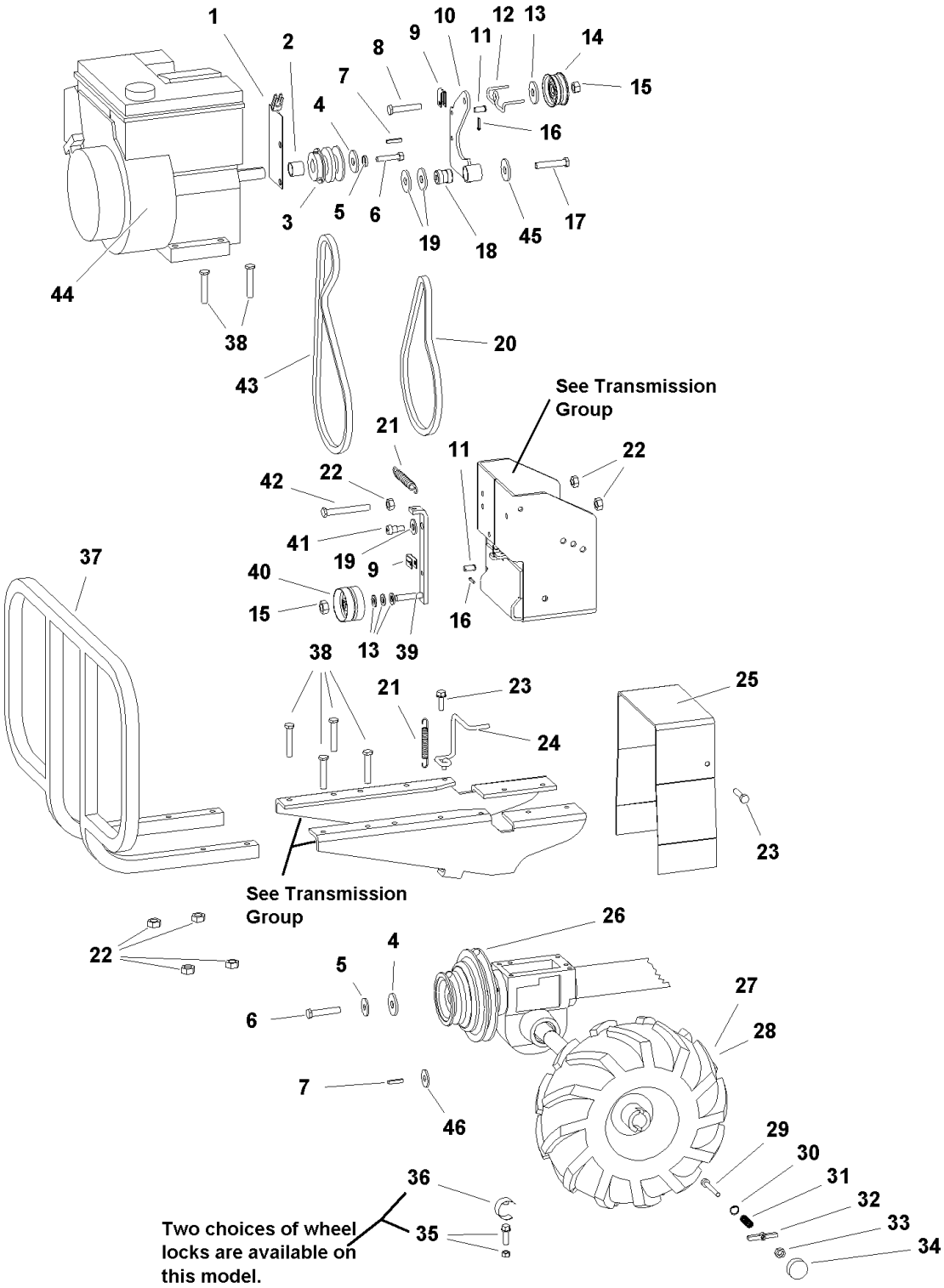

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1694162 - 7016 RT

1694909 - 7016 RT

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Engine, Belts & Wheels Group

REF NO	PART NO.	QTY.	DESCRIPTION
41	1722168SM	1	SCREW, Hex Socket Shoulder, 5/16-18 x 3/8
42	1925690SM	1	CAPSCREW, Hex Head, 5/16-18 x 3-1/2
43	1722144SM	1	V-BELT, Reverse
44	*	1	ENGINE, 7HP B&S INTEK , 2005 - Engine Model 120412, Engine Type 0141-E1
44	*	1	ENGINE, 7HP B&S INTEK , 2006 - Engine Model 127312, Engine Type 0111-E1
45	1919384SM	1	WASHER, 3/8
46	2860164SM	1	WASHER

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Footnotes

Note* See your local Briggs & Straton distributor for Parts & Service.

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1694162 - 7016 RT
1694909 - 7016 RT

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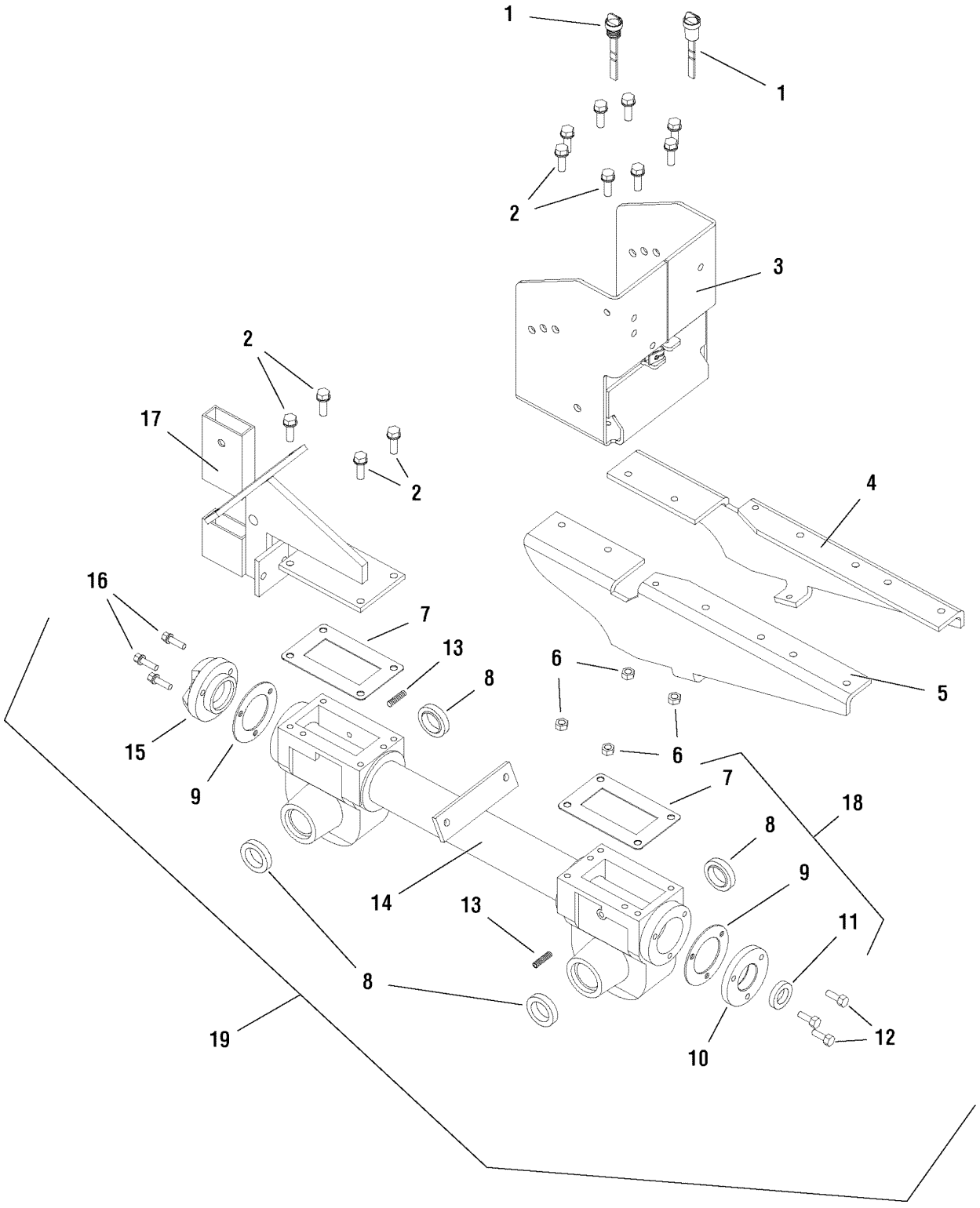
Transmission Group

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

986108



The above parts group applies to the following Mfg. Nos.:

1694162 - 7016 RT

1694909 - 7016 RT

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Transmission Group

REF NO	PART NO.	QTY.	DESCRIPTION
1	1718882SM	1	DIPSTICK (Threaded)
1	1723700SM	1	DIPSTICK (Push-In)
2	1921332SM	12	BOLT, Hex Flange Head, 5/16-18 x 3/4
3	1722327SM	1	COVER PLATE & MOUNT
4	1716753SM	1	BRACKET, Engine Mount LH
5	1716752SM	1	BRACKET, Engine Mount RH
6	1935048SM	4	NUT, Hex Flange 5/16-18
7	1716789SM	2	GASKET, Housing & Transmission Cover
8	1716791SM	4	SEAL, Housing
9	1716792SM	2	GASKET, Bearing Cap Front, Rear
10	1716796SM	1	CAP, Rear Bearing
11	1716797SM	1	SEAL, Oil, Drive Shaft
12	1716798SM	3	BOLT, Hex Flange Head, 1/4-20 x 3/4
13	1716790SM	2	PLUG, Pipe Socket Head, Oil Check, 1/4-18
14	1722330SM	1	TRANSMISSION, Tiller Casting
15	1716793SM	1	CAP, Rear Bearing
16	1716795SM	3	BOLT, Hex Flange Head, 1/4-20 x 7/8
17	1721511SM	1	BRACKET, Depth Regulator
18	1716799SM	1	GASKET KIT, Oil Seal (Includes Referance Nos. 7, 8, 9, and 11)
19	1723701SM	1	TRANSMISSION ASSEMBLY, Complete

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Footnotes

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1694162 - 7016 RT
1694909 - 7016 RT

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Wheel & Tiller Shaft Group

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

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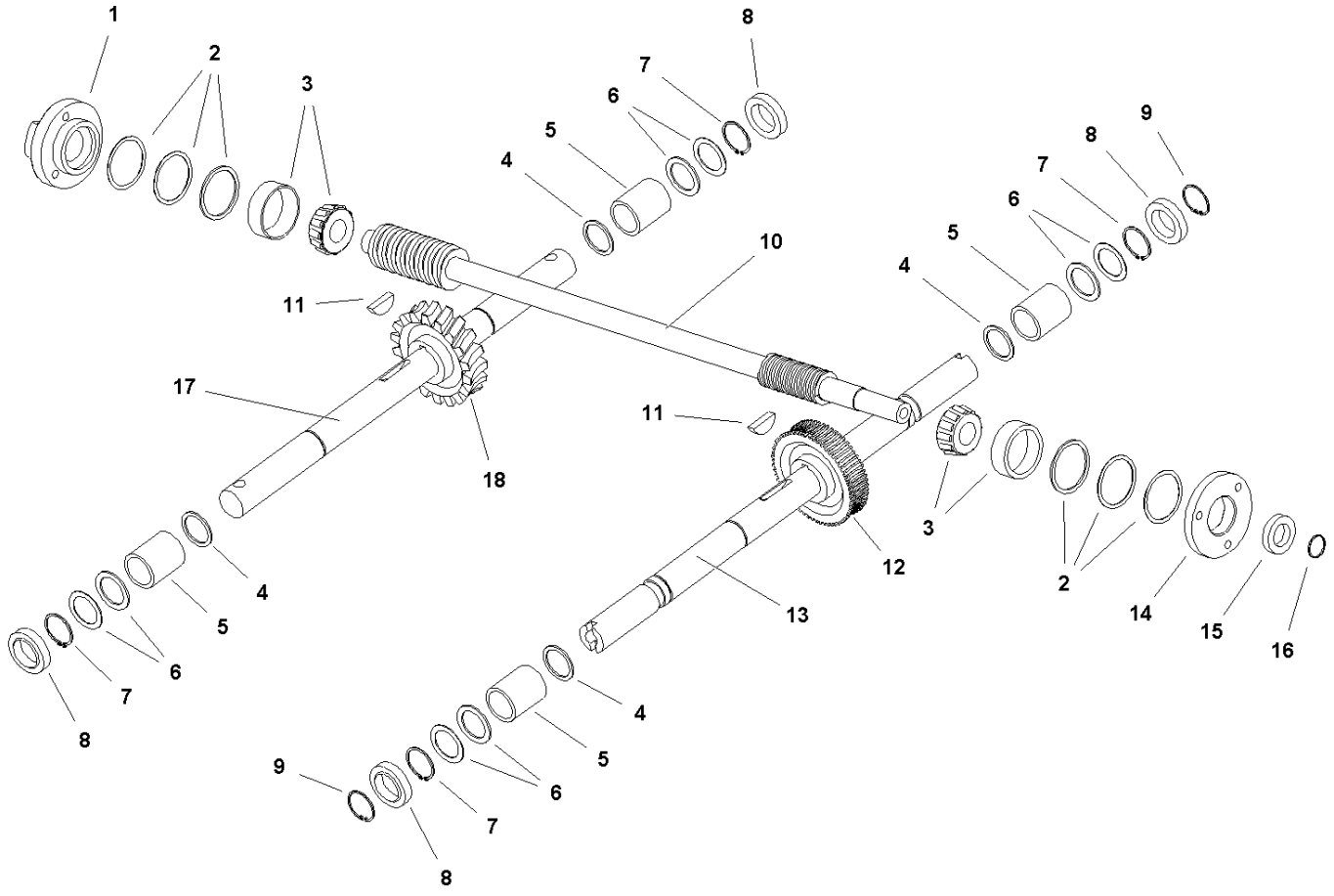

The above parts group applies to the following Mfg. Nos.:

1694162 - 7016 RT

1694909 - 7016 RT

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Wheel & Tiller Shaft Group

REF NO	PART NO.	QTY.	DESCRIPTION
1	1716793SM	1	CAP, Rear Bearing
2	1716825SM	1	SHIM SET, Rear Bearing Cap
2	1716826SM	1	SHIM, 0.062 THK 1-3/4 OD 1806 (As Required)
2	1716827SM	1	SHIM, 0.030 THK 1-3/4 OD 1807 (As Required)
2	1716828SM	1	SHIM, 0.015 THK 1-3/4 OD 1808 (As Required)
2	1716829SM	1	SHIM, 0.010 THK 1-3/4 OD 1809 (As Required)
3	1716810SM	2	BEARING, Tapered (Cone & Race)
4	1716824SM	4	SPACER, 1" ID x 11/4" OD
5	1716816SM	4	BUSHING
6	1716815SM	4	SHIM SET, Axle Spacer
6	1716817SM	1	SHIM, 0.062 THK 1-3/8" x OD 1705 (As Required)
6	1716818SM	1	SHIM, 0.030 THK 1-3/8" x OD 1706 (As Required)
6	1716819SM	1	SHIM, 0.015 THK 1-3/8" x OD 1707 (As Required)
6	1716820SM	1	SHIM, 0.010 THK 1-3/8" x OD 1708 (As Required)
7	1716830SM	4	RING, Snap, Internal Retainer
8	1716791SM	4	SEAL, Housing
9	1716821SM	2	RING, Snap, External Retainer
10	1722333SM	1	DRIVE SHAFT, Main
11	1716813SM	2	KEY, Parrallel Plan 1/4" x 1/4" x 1"
12	1716814SM	1	GEAR, Worm, Wheel Shaft
13	1716812SM	1	SHAFT ASSEMBLY, Wheel w/Lock Pin
14	1716796SM	1	CAP, Rear Bearing
15	1716797SM	1	SEAL, Oil, Drive Shaft
16	2860164SM	1	WASHER, 5/8"
17	1716811SM	1	SHAFT ASSEMBLY, Wheel w/Lock Pin
18	1716823SM	1	GEAR, Worm Shaft

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Footnotes

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1694909 - 7016 RT

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Decal Group

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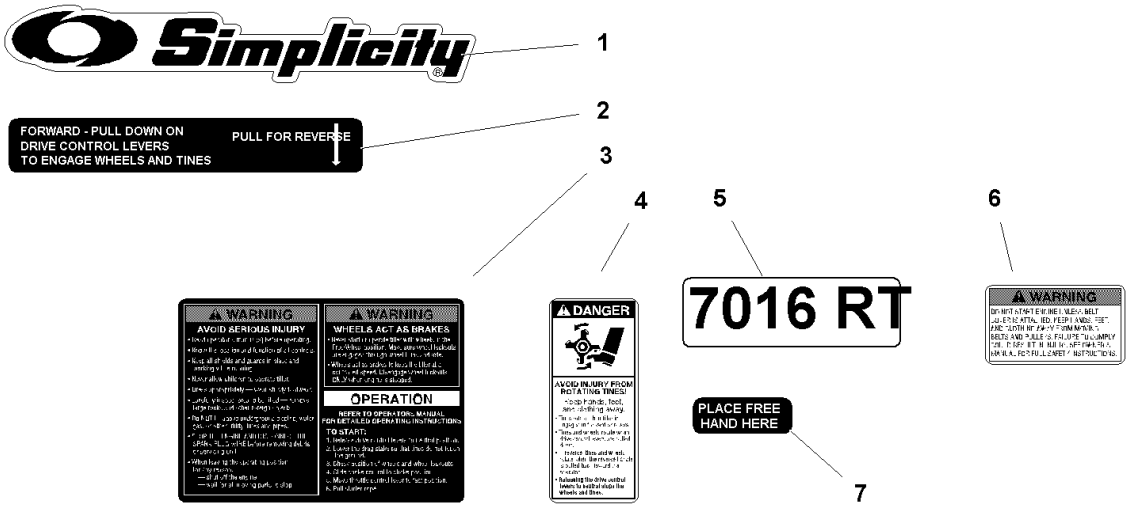

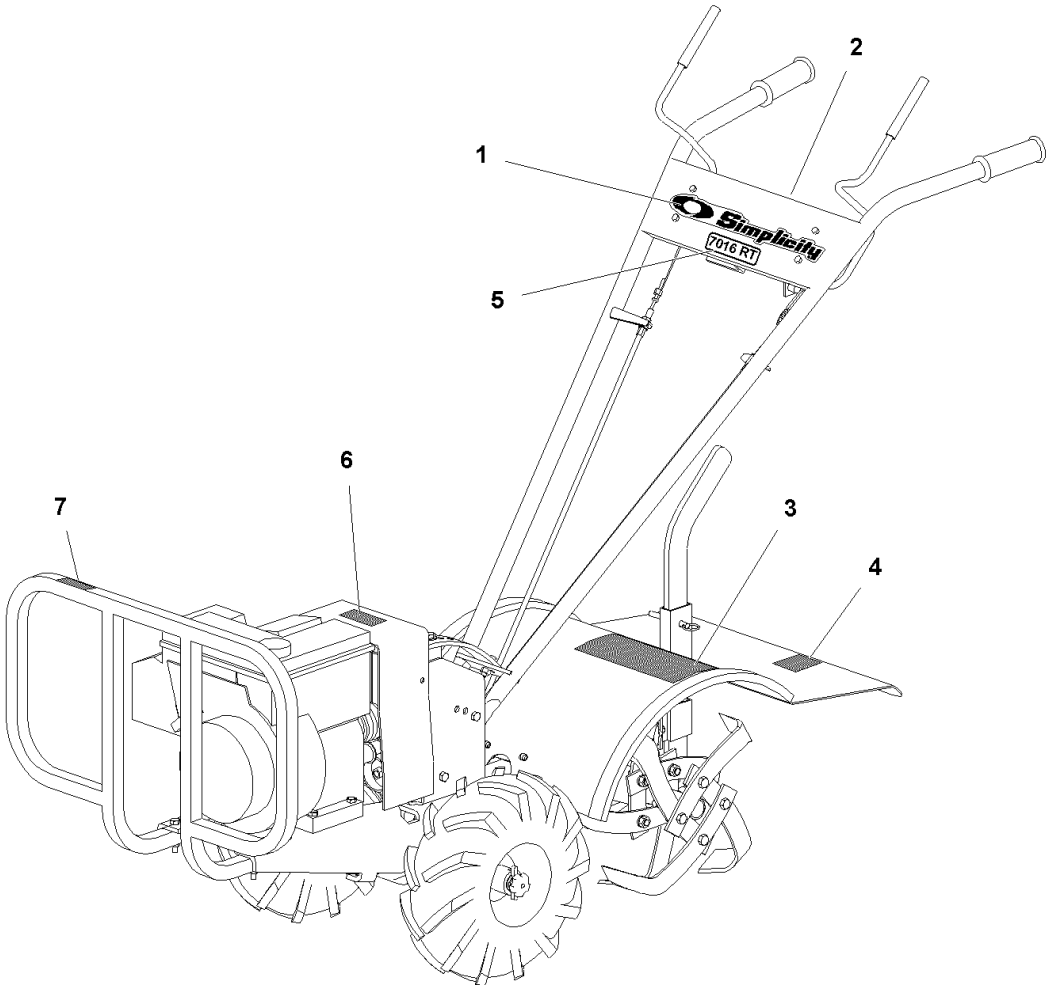

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1694909 - 7016 RT

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Decal Group

REF NO	PART NO.	QTY.	DESCRIPTION
1	1722551SM	1	DECAL, SIMPLICITY, w/Logo
2	1716734SM	1	DECAL, Console Forward/Reverse Instructions
3	1716747SM	1	DECAL, Hood, Operator Instructions Label
4	1716840SM	1	DECAL, Danger, Tine Hood Label
5	1723522SM	2	DECAL, 7016 RT
6	1716800SM	1	DECAL, Warning, Belt Cover
7	1716839SM	1	DECAL, Brush Bar

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Footnotes

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1694909 - 7016 RT

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Hiller/Furrower Attachment

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

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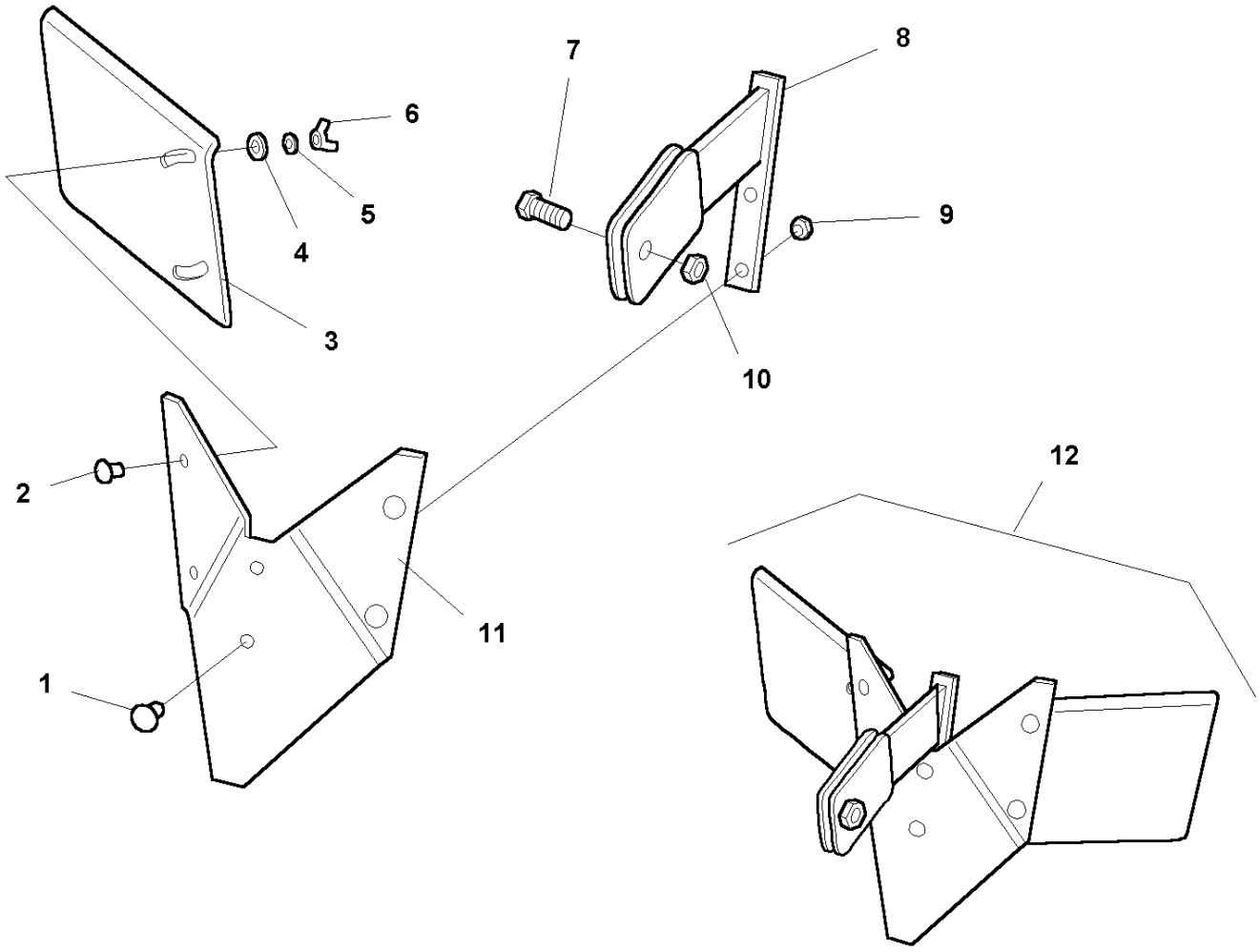

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1694909 - 7016 RT

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Hiller/Furrower Attachment

REF NO	PART NO.	QTY.	DESCRIPTION
1	1931352SM	2	BOLT, Carriage, 3/8-16 x 1-1/2
2	1931333SM	4	BOLT, Carriage, 5/16-18 x 3/4
3	1723726SM	1	HILLER WING, Left
3	1723727SM	1	HILLER WING, Right (Not Shown)
4	1960044SM	4	WASHER, Flat, 5/16
5	2820426SM	4	LOCKWASHER, External Tooth, 5/16
6	1933126SM	4	WING NUT, 5/16-18
7	1960268SM	1	BOLT, Socket Head, 3/8-16 x 1-1/4
8	1723725SM	1	BRACKET
9	1919439SM	2	NUT, Nylock, 3/8-16
10	1916950SM	1	NUT, Hex, 3/8-16
11	1723724SM	1	BLADE, Furrower
12	1686802SM	1	HILLER / FURROWER ATTACHMENT, Complete

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Footnotes

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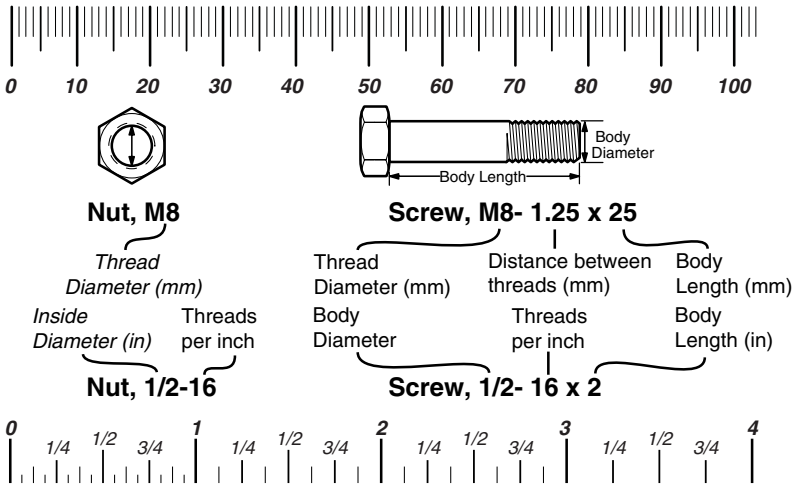
Hardware Identification & Torque Specifications

Torque Specification Chart

FOR STANDARD METRIC MACHINE HARDWARE (Tolerance ± 20%)

Property Class	5.6 Class 5.6		8.8 Class 8.8		10.9 Class 10.9		12.9 Class 12.9	
Size Of Hardware	*in/lbs* **ft/lbs**	Nm.	*in/lbs* **ft/lbs**	Nm.	*in/lbs* **ft/lbs**	Nm.	*in/lbs* **ft/lbs**	Nm.
M3	*5.88*	*.56*	*13.44*	*1.28*	*19.2*	*1.80*	*22.92*	2.15
M4	*13.44*	*1.28*	*30.72*	*2.90*	*43.44*	*4.10*	*52.56*	4.95
M5	*26.4*	*2.50*	*60.96*	*5.75*	**5.97**	*8.10*	**7.15**	9.7
M6	*44.64*	*4.3*	**7.3**	*9.9*	**10.3**	*14*	**12.1**	16.5
M7	**5.2**	*7.1*	**12.1**	*16.5*	**16.9**	*23*	**19.9**	27
M8	**7.7**	*10.5*	**17.7**	*24*	**25**	*34*	**29**	40
M10	**15**	*21*	**35**	*48*	**50**	*67*	**59**	81
M12	**26**	*36*	**61**	*83*	**86.2**	*117*	**103**	140
M14	**42**	*58*	**101**	*132*	**136**	*185*	**162**	220
M16	**64**	*88*	**147**	*200*	**210**	*285*	**250**	340
M18	**89**	*121*	**202**	*275*	**287**	*390*	**346**	470
M20	**126**	*171*	**290**	*390*	**405**	*550*	**486**	660
M22	**169**	*230*	**390**	*530*	**559**	*745*	**656**	890
M24	**217**	*295*	**497**	*375*	**708**	*960*	**840**	1140
M27	**320**	*435*	**733**	*995*	**1032**	*1400*	**1239**	1680
M30	**435**	*590*	**995**	*1350*	**1401**	*1900*	**1681**	2280
M33	**590**	*800*	**1349**	*1830*	**1902**	*2580*	**2278**	3090
M36	**759**	*1030*	**1740**	*2360*	**2441**	*3310*	**2935**	3980
M39	**988**	*1340*	**2249**	*3050*	**3163**	*4290*	**3798**	5150

The guides and ruler furnished below are designed to help you select the appropriate hardware.



Standard Hardware Sizing

When a washer or nut is identified as **1/2"** (M8), this is the *Nominal size*, meaning the *inside diameter* is 1/2 inch (8mm metric thread diameter); if a second number is present it represents the *threads per inch* (distance between threads).

When bolt or capscrew is identified as **1/2 - 16 x 2"** (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number,16, represents the *threads per inch, (1.25 thread diameter).* The final number is the body length of the bolt or screw, 2 inches (50mm).

Torque Specification Chart

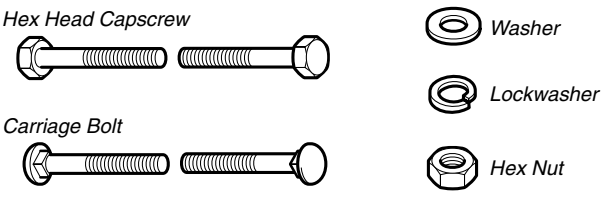
FOR STANDARD MACHINE HARDWARE (Tolerance ± 20%)

Hardware Grade	No Marks SAE Grade 2		SAE Grade 5		SAE Grade 8	
Size Of Hardware	*in/lbs* **ft/lbs**	Nm.	*in/lbs* **ft/lbs**	Nm.	*in/lbs* **ft/lbs**	Nm.
8-32	*19*	2.1	*30*	3.4	*41*	4.6
8-36	*20*	2.3	*31*	3.5	*43*	4.9
10-24	*27*	3.1	*43*	4.9	*60*	6.8
10-32	*31*	3.5	*49*	5.5	*68*	7.7
1/4-20	*66*	7.6	**8**	10.9	**12**	16.3
1/4-28	*76*	8.6	**10**	13.6	**14**	19.0
5/16-18	**11**	15.0	**17**	23.1	**25**	34.0
5/16-24	**12**	16.3	**19**	25.8	**29**	34.0
3/8-16	**20**	27.2	**30**	40.8	**45**	61.2
3/8-24	**23**	31.3	**35**	47.6	**50**	68.0
7/16-14	**30**	40.8	**50**	68.0	**70**	95.2
7/16-20	**35**	47.6	**55**	74.8	**80**	108.8
1/2-13	**50**	68.0	**75**	102.0	**110**	149.6
1/2-20	**55**	74.8	**90**	122.4	**120**	163.2
9/16-12	**65**	88.4	**110**	149.6	**150**	204.0
9/16-18	**75**	102.0	**120**	163.2	**170**	231.2
5/8-11	**90**	122.4	**150**	204.0	**220**	299.2
5/8-18	**100**	136	**180**	244.8	**240**	326.4
3/4-10	**160**	217.6	**260**	353.6	**386**	525.0
3/4-16	**180**	244.8	**300**	408.0	**420**	571.2
7/8-9	**140**	190.4	**400**	544.0	**600**	816.0
7/8-14	**155**	210.8	**440**	598.4	**660**	897.6
1-8	**220**	299.2	**580**	788.8	**900**	1,244.0
1-12	**240**	326.4	**640**	870.4	**1,000**	1,360.0

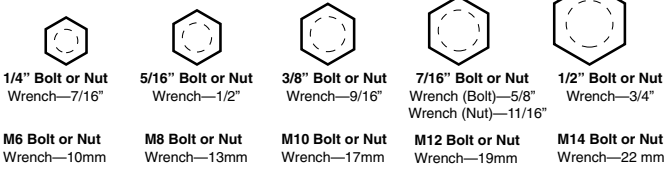
NOTES

1. These torque values are to be used for all hardware excluding: locknuts, self-tapping screws, thread forming screws, sheet metal screws and socket head setscrews.
2. Recommended seating torque values for locknuts:
   a. for prevailing torque locknuts - use 65% of grade 5 torques.
   b. for flange whizlock nuts and screws - use 135% of grade 5 torques.
3. Unless otherwise noted on assembly drawings, all torque values must meet this specification.

Common Hardware Types



Wrench & Fastener Size Guide



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